

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 14

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Jeffery R. Harris
Art Unit	
Examiner Name	

Attorney Docket Number 194-29412-USCP

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 2,879,173	03-24-1959	Yacoe	
		US- 3,351,601	11-07-1967	Blaga, et al.	
		US- 3,528,841	09-15-1970	Donaldson, et al.	
		US- 3,632,369	01-04-1972	Hahn	
		US- 3,779,969	12-18-1973	Clayton, et al.	
		US- Re. 28,361	03-11-1975	Hahn	
		US- 3,884,252	05-20-1975	Kruka	
		US- 4,016,894	04-12-1977	Baldwin, et al.	
		US- 4,066,539	01-03-1978	Hachisu, et al.	
		US- 4,147,677	04-03-1979	Lundberg, et al.	
		US- 4,177,177	12-04-1979	Vanderhoff, et al.	
		US- 4,212,312	07-15-1980	Titus	
		US- 4,263,926	04-28-1981	Drake, et al.	
		US- 4,289,679	09-15-1982	Mack	
		US- 4,340,076	07-20-1982	Weitzen	
		US- 4,384,089	05-17-1983	Dehm	
		US- 4,436,846	03-13-1984	Krantz	
		US- 4,499,214	02-12-1985	Sortwell	
		US- 4,510,304	04-09-1985	Hadermann	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		CA 675,522	12-03-1963	Jankens		
		CA 901,727	05-03-1972	Amann, et al.		
		GB 1,452,146	10-13-1976	Smitherman, Jr.		
		EP 0 196 350 B1	10-09-1986	Mack		
		WO 01/88031 A1	11-22-2001	Karhu, et al.		
		WO 02/101282 A2	12-19-2002	Eaton, et al.		

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 4

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Jeffery R. Harris
Art Unit	
Examiner Name	
Attorney Docket Number	194-29412-USCP

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,527,581	07-09-1985	Motier	
		US- 4,584,244	04-22-1986	Fenton	
		US- 4,588,640	05-13-1986	Matlach	
		US- 4,659,334	04-21-1987	Matlach	
		US- 4,693,321	09-15-1987	Royer	
		US- 4,720,397	01-19-1988	O'Mara, et al.	
		US- 4,771,799	09-20-1988	Baxter, et al.	
		US- 4,789,383	12-06-1988	O'Mara, et al.	
		US- 4,826,728	05-02-1989	O'Mara, et al.	
		US- 4,837,249	06-06-1989	O'Mara, et al.	
		US- 5,080,121	01-14-1992	Malik, et al.	
		US- 5,165,440	11-24-1992	Johnston	
		US- 5,165,441	11-24-1992	Mitchell	
		US- 5,169,074	12-08-1992	Fauth, et al.	
		US- 5,244,937	09-14-1993	Lee, et al.	
		US- 5,376,697	12-27-1994	Johnston, et al.	
		US- 5,449,732	09-12-1995	Smith, et al.	
		US- 5,504,131	04-02-1996	Smith, et al.	
		US- 5,504,132	04-02-1996	Smith, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3

of 4

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Jeffery R. Harris
Art Unit	
Examiner Name	
Attala P. Art Number	104-20412-USCR

Attorney Docket Number 194-29412-USCP

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND ALL COMMENTS TO: U.S. Patent and Trademark Office, P.O. Box 1450, Washington, DC 20231.

TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Compliance if Known	
				Application Number	
				Filing Date	
				First Name and Inventor	Jeffery R. Harris
				Art Unit	
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	194-29412-USCP

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		C. B. LESTER, "What to Expect from and How to Handle Commercially Available Drag-Reducing Agents," Oil & Gas Journal, March 11, 1985, pp. 116-119.			
		NERAC Abstract of WO 02/085960, 2002.			
		NERAC Abstract of EP 887265 B1, 2002.			
		NERAC Abstract of US 4,557,713, 2002.			
		NERAC Abstract of WO 02/102667, 2002.			
		NERAC Abstract of WO 02/0102663, 2002.			

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including the gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.